CEA Instruments, Inc.
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Emerson, New Jersey 07630
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Model FX-1 Mini Detector
Operation and Maintenance Manual

Important
Please Read Carefully and Save

The FX-1 Gas Detector includes a manual and an instructional guide that contain important information about its operation. Purchasers who install this detector for use by others must leave this instruction manual or a copy with the user.

Book # FX-1-2000A

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Warning

All functions of this Gas Detection System must be checked and verified on a regular basis.

Important

Please read carefully and save.

This Gas Detector includes a manual and an instructional guide that contain important information about its operation. Purchasers who install this detector for use by others must leave this manual and instructional guide or a copy of them with the user.

Introduction

General Description:

The Foxcroft FX-1 Gas Detector is designed to have the simplicity of a typical smoke detector. It utilizes the same sensor as our more advanced detectors, but comes in a smaller package that is easy to install and simple to use.

Specifications:

Sensor Input:	One Sensor
Warranty:	Detector—2 years Sensor—1 year
Alarm Trip Points:	See Page 11 for specific gas trip point levels.
Response Time:	Less than 8 seconds to full alarm.
Accuracy: (ppm @ 20° C)	0.1 percent
Resolution:	0.1
Operating Temperature Range:	-15° to +40° C (+5° to +104° F)
Operating Humidity:	15 to 90% (non-condensing)

Drift:	Less than 2% per month
Auxiliary Relay Contact:	Danger—DPST 10A @ 125VAC latching
Auxiliary Outputs:	Warning 12VDC, 90 ohms max.
	Cell Failure 12VDC, 90 ohms max.
	Power Failure 12VDC, 90 ohms max.
Power:	115 VAC (standard) 50/60 Hz.
	220 VAC (optional) 50/60 Hz.
	Remote Power Transformer

All functions of this Gas Detection System must be checked and verified on a regular basis.

Introduction

Warning

If the alarm buzzer sounds a loud pulsating sound and you are **not** testing the gas detector, it has sensed a gas leak. The alarm buzzer is warning of a possibly serious situation and it requires your immediate attention.

Basic Information About Your FX-1:

Put an FX-1 in every place that it is needed to protect personnel.

Place in the proper location according to what type of gas the air is being monitored for.

Plug the power pack into a 115VAC outlet.

The "Cell Failure" green LED will blink when you first plug the detector into an AC outlet. It will go out in approximately 15 minutes. The "Danger" alarm may sound, simply press the reset button to silence the horn. In some cases a clicking sound may occur. This is normal and it will usually stop in a minute or two.

Test the detector by pressing the reset button. Hold it in for 10 seconds. The "Confirm" red LED should illuminate, the "Danger" alarm LED should blink, and the horn will give a quick chirp. The detector may also be tested by waving a flashlight at the "Reset" mark on the control panel.

Introduction

Warning

All functions of this Gas Detector must be checked and verified on a regular basis.

Even the ability for the gas sensor to sense toxic gas or low oxygen levels must be verified on a regular basis. It is recommended that the gas sensor be tested by means of a **certified gas standard** at least once **every six months.**

Warning

If the FX-1 Gas Detector is altered in any way, warranty will be voided. Example: drilling additional holes in the enclosure to mount conduits, changing operating range of the gas sensor and altering the gas alarm trip points.

Warning

Never disconnect an AC powered Gas Detector to stop nuisance alarms. The source of the problem must be corrected.

Warning

If the alarm buzzer sounds a loud pulsating sound and you are **not** testing the FX-1 Gas Detector, it has sensed a toxic gas leak or low oxygen level. The alarm buzzer is warning of a possibly serious situation and it requires your immediate attention.

Introduction

Warning

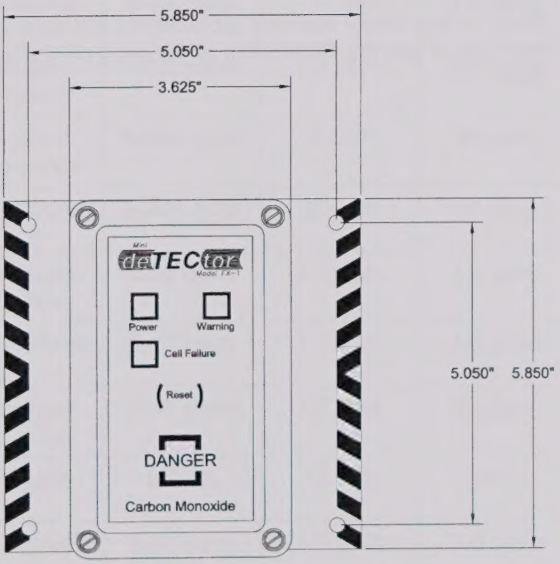
If the FX-1 Gas Detector does not work properly, **do not try to fix it yourself**. This will void your warranty. Send the detector with power supply to:

CEA Instruments, Inc.
16 Chestnut Street
Emerson, New Jersey 07630
TEL: 201-967-5660 FAX: 201-967-8450

A Return Material Authorization Number (RMA) is required before shipping any products for service.

Introduction

Dimensions:



Depth 3.5 inches

Range and Alarm Trip Point Chart:

Standard Range (ppm or %)

Optional ranges and Alarm Trip Points may be available.

Refer to the Serial Number label inside the detector for the type of gas it's monitoring or labeling on the sensor itself.

Range and Alarm Trip Point Chart:

GAS	Standard Range	Warning Trip Point	Danger Trip Point
Chlorine	**0-10 ppm**	1.0 ppm	**3.0 ppm**
Sulfur Dioxide	**0-10 ppm**	1.0 ppm	**3.0 ppm**
Carbon Monoxide	**0-500 ppm**	35 ppm	**50 ppm**
Hydrogen	**0-200 ppm**	35 ppm	**50 ppm**
Hydrogen Sulfide	**0-10 ppm**	1.0 ppm	**3.0 ppm**
Nitric Oxide	**0-10 ppm**	1.0 ppm	**3.0 ppm**
Nitrogen Dioxide	**0-10 ppm**	1.0 ppm	**3.0 ppm**
Oxygen	**0-25%**	19.5 %	**16%**
Ammonia**	**0-50 ppm**	1.0 ppm	**3.0 ppm**
Hydrogen Cyanide	**0-10 ppm**	.5 ppm	**1.0 ppm**
Ozone	**0-10 ppm**	1.0 ppm	**3.0 ppm**
Hydrogen Chloride	**0-10 ppm**	1.0 ppm	**3.0 ppm**

** Consult factory for precautions.

Introduction

What this Gas Detector Can Do:

The FX-1 Gas Detector is designed to give an early warning of developing toxic gas leaks or low oxygen levels by monitoring the air. When it senses toxic gas or low oxygen levels, it sounds its built-in alarm horn and flashes its red blinking LED.

The FX-1 Gas Detector provides 2 alarm trip levels, with each indicating a specific concentration of gas.

These alarm trip levels are fixed and cannot be adjusted. A toxic gas or oxygen "Cell Failure" indicator provides warning of possible sensing problems. A green LED illuminates brightly, assuring the AC power is "on".

The FX-1 Gas Detector includes a convenient Flashlight activated Test, Silence and Reset feature. To activate the flashlight feature, simply wave a flashlight beam over the reset label on the control panel. No need to bend down, or strain to press the reset button in a difficult to reach place. The FX-1 Gas Detector can also be tested, silenced and reset by a local reset button.

Introduction

General Limitations:

The FX-1 Gas Detectors will not work without power. AC powered gas detectors will not work if the power is cut off for any reason. Some examples are a power failure at the power station, an open fuse or circuit breaker, corrosion of the electrical system that destroys the wires, a failure of an electrical switching device. If there are any concerns about the limitations of AC power, a battery backup should be installed.

The green "Power On" LED should be clearly illuminated at all times.

The FX-1 Gas Detector will not sense toxic gas or oxygen if the gas which it is monitoring for does not reach the sensing chamber.

Gas Detectors may not sense toxics leaks or low oxygen levels in another room or another floor of the building. For example: An outside mounted Gas Detector may not sense a toxic gas leak inside a building. Therefore, place a Gas Detector wherever it is needed to protect your personnel.

Warning

All functions of this FX-1 Gas Detector must be checked and verified on a regular basis.

General Limitations: *continued*

FX-1 Gas Detectors may not be heard or seen. The loudness of the horn in the FX-1 Gas Detector meets (or exceeds) current standards. However, if the FX-1 Gas Detector is placed in a closed room, it may not be heard or seen by personnel, especially if the door does not have a window to see the visual alarm. Even normal noise such as traffic, motors running, radios, and air conditioners may prevent personnel from hearing the audible alarm. **FX-1 Gas Detectors may not be heard or seen by persons who are hard of hearing or visually impaired.** It is recommended that the remote warning devices be installed to alert personnel before entering a room. Several detectors are recommended both outside the building or in any room that contain personnel, where toxic gas or low oxygen level can develop.

FX-1 Gas Detectors are not fool-proof. Like all other electronic devices, the FX-1 Gas Detectors have limitations. Detectors cannot be expected to sense a dangerous toxic gas leak or low oxygen levels if the cavity is blocked by debris or the detector is carelessly tampered with by personnel.

Warning

To avoid possible severe personnel injury observe all precautions.

General Limitations: *continued*

The FX-1 has a limited life. This equipment contains many parts. Just like with any other device any one of these parts could fail at any time. Therefore, you must test your detector on a regular basis. Be sure to have it repaired or replaced when it fails to test properly. In no case should the detector be used for more than 10 years. All functions of this detector must be checked and verified on a regular basis. Even the ability of the sensor must be verified by means of a **certified gas standard** at least 2 times a year.

Life and Replacement:

Most sensors are designed for a minimum life span of 2 years and are warranted for 1 year from the date of shipment. Life expectancy can be as high as 10 years. Oxygen sensors have a life span of 1 year and are warranted for a period of 1 year from the date of shipment. *To verify expiration date, see serial number data tag or the data sheet provided.*

Mechanical Installation

Sensor Placement:

Important

Proper placement of the sensor is essential to the operation of the FX-1. Location will either result in rapid alarming of hazardous leaks or low oxygen levels or it can delay or fail to warn of a hazardous condition.

Correct installation of the sensor depends mostly on what type of gas the detector is monitoring the air for. If the gas is heavier than air, then the sensor should be placed closer to the floor and vice versa for gases which are lighter than air.

Never mount the FX-1 Gas Detector in direct sunlight or direct light.

Do not install in very dusty or dirty areas. Dust and dirt can build up on the sensing chamber, making it overly sensitive. Or dirt can block openings to the sensing chamber and keep the gas detector from sensing toxic gas or low oxygen levels.

Do not install in areas of wash down. The gas detector should not be washed with water or mounted in areas where water is used for cleaning.

Do not install near fresh air vents, or very drafty areas. Take into account ventilation air flow patterns. If installing in an outdoor area, the sensor should generally be placed downwind of the source. More than one system may be needed to efficiently protect some outdoor locations.

Mechanical Installation

Sensor Placement: *continued*

Warning

The detector cannot efficiently monitor the air if the sensing chamber is blocked in any way.

Do not install in insect-infested areas. If insects enter a sensing chamber, they may cause a nuisance alarm. Also they can block the sensing chamber and prevent toxic gas or oxygen from entering the chamber.

Outdoor areas may require more than one FX-1 Gas Detector for protection.

Warning

Do not install near fresh air vents, or in very drafty areas.

Mechanical Installation

Physical Installation:

Installation of the FX-1 Gas Detector consists of physically mounting the unit to a wall, plugging the AC power pack into an AC receptacle and wiring the output alarm contact connections.

1. Place the sensor against the wall where you want to mount it and use a pencil to mark the four mounting holes.

2. Set the sensor someplace where you will not get dust or dirt on it when you drill the mounting holes.

3. Using a 1/8" drill bit, drill the pencil marks.

4. Place the detector against the wall and insert the four screws. Tighten screws until detector is securely mounted to the wall.

Warning

Correct installation of the sensor depends mostly on what type of gas the detector is monitoring the air for. If the gas is heavier than air, then the sensor should be placed closer to the floor and vice versa for gases which are lighter than air.

Mechanical Installation

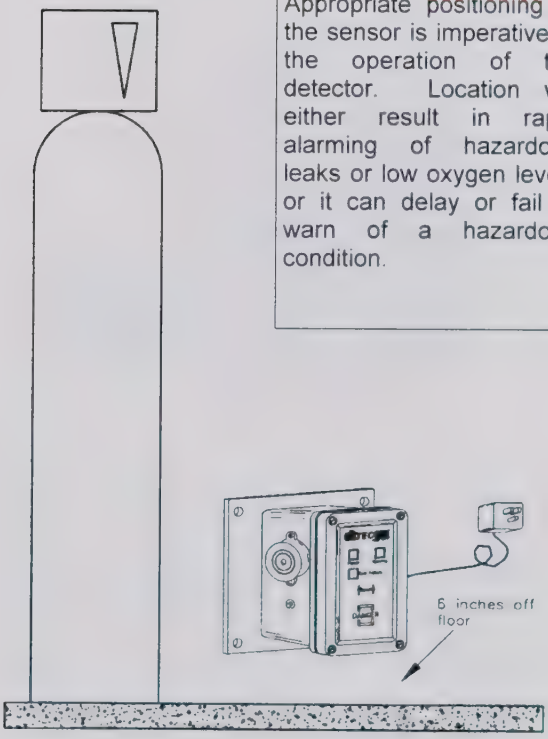
Typical Installation

Chlorine Gas **ONLY**

example

Warning

Appropriate positioning of the sensor is imperative to the operation of the detector. Location will either result in rapid alarming of hazardous leaks or low oxygen levels or it can delay or fail to warn of a hazardous condition.

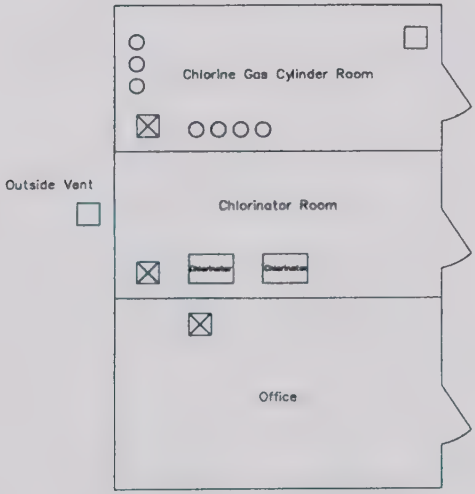


Typical Installation

Physical Installation: *continued*

This drawing indicates recommended locations for minimum security and a higher degree of security.

Gas detectors will not sense a toxic gas leak or oxygen if the gas does not reach the sensing chamber.



FX-1 Gas Detector for minimum Security.

FX-1 Gas Detector for more Security.

Electrical

Wiring:

The FX-1 Gas Detector should be wired to its own AC power source which is uninterrupted. **A battery backup system is recommended where AC power is likely to be interrupted.**

FX-1 Gas Detectors will not work without AC power.

All electrical connections are made to a terminal located on the power supply card. The power supply card is located in the main cavity of the enclosure.

1. The 4 corner screws are held in place by o-rings. They will keep the screws in place.

2. Be careful not to pull the cover out too far.

3. The cards are attached together by a ribbon cable. The ribbon cable may be disconnected from the power supply card. Be careful not to bend the pins on the connector.

4. A conduit hole is provided for output device connections.

5. Finally replace the front cover/ control panel.

If the ribbon cable was removed, be extremely cautious when reconnecting; be sure the pins are lined up properly and polarity is observed.

Wiring: *continued*

Danger Alarm Relay

One latching relay is provided for the Danger Alarm Trip Point. This relay has a maximum rating of 10A @ 125VAC. The danger relay must be manually reset by pressing the local reset button.

Do Not Over Load Relays
10 amp MAXIMUM, @ 125 VAC

Circuit Board Damage will occur if relays are over loaded.

The Danger Alarm Relay is associated with the "Danger Alarm" LED. When the alarm is energized, the relay will hold until it is manually reset using the "Reset" functions.

Relay / Outputs Selections

1. **Danger** - Please refer to page 11 for danger alarm trip point. To unlatch this relay, it must be manually reset.

2. **Warning** - Please refer to page 11 for warning alarm trip point. When the trip level falls below the trip point the output will automatically reset. No relay is provided. Output 12VDC @ 90 ohms maximum.

Wiring: *continued*

Relay / Outputs Selections *continued*

3. **Power Failure** - Provides a 12VDC output, indicating AC power is applied to the unit. No relay is provided. Output 12VDC @ 90 ohms maximum.

4. **Cell Failure** - Provides a 12VDC output, indicating a signal voltage problem with the sensor. No relay is provided.

Recommended Auxiliary Relays

Grainger
6C885
4A048
4A051

Radio Shack
275-218

Never exceed the rating of the relays or 12VDC power outputs. Use only factory recommended auxiliary relays.

Do Not Over Load Relays
Circuit Board Damage Will Occur if Relay or Outputs Are Over Loaded.

WARNING

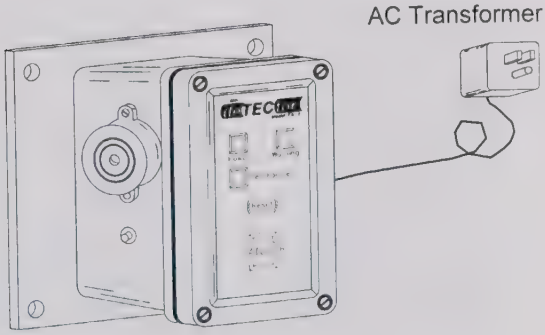
The use of non-factory recommended auxiliary relays may result in the FX-1 Gas Detector malfunctioning.

Wiring: *continued*

AC Power Supply Installation

Plug the provided AC transformer into any standard 115VAC, 50/60 Hz. Outlet.

Warning - The FX-1 will not work without AC power.



Important

A battery backup system is recommended where AC power is likely to be interrupted.
Always test the unit after a power outage or surge, however brief.

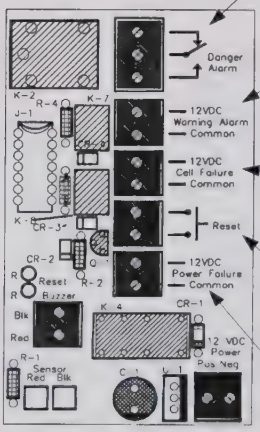
Warning

Never plug the AC power transformer into an extension cord. The detector must be directly plugged into a wall AC outlet.

Electrical

Wiring: *continued*

Relay and Voltage Outputs
Power Supply Card



Danger Alarm
DPST, 10 Amp
Maximum @125VAC

Warning Alarm
Output Voltage 12VDC
@90 ohms max.

Cell Failure
Output Voltage 12VDC
@90 ohms max.

Remote Reset
Normally Open
Switch Required

Power Failure
Output Voltage 12VDC
@90 ohms max.

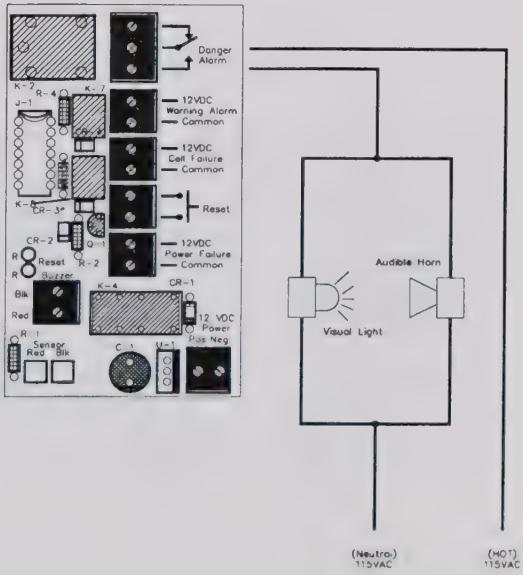
Do Not Over Load Relays

Circuit Board Damage Will Occur if Relay or Outputs Are Over Loaded.

Wiring: *continued*

Typical Audible Horn and Visual Lamp Wiring

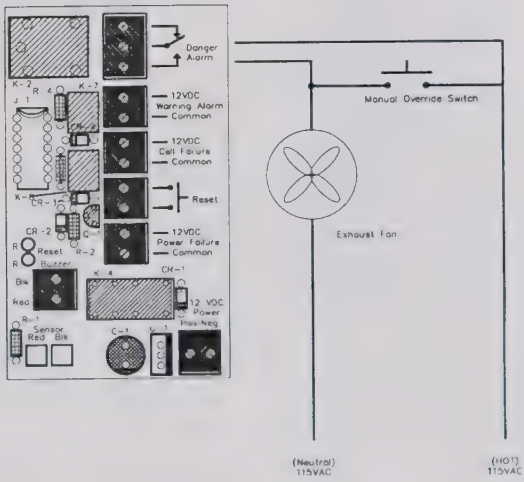
Do Not Over Load Relay
10 Amp Maximum, @125VAC



Wiring: *continued*

Typical Exhaust Fan Wiring

Do Not Over Load Relay
10 Amp Maximum, @125VAC

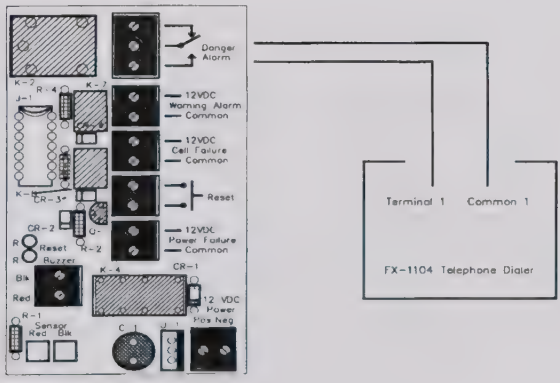


Electrical

Wiring: *continued*

Typical Telephone Dialer Wiring

The drawing demonstrates a typical wiring of the FX-1104 or FX-1108 Telephone Dialing systems.



For more information refer to the FX-1104 or FX-1108 user manuals.

Wiring: *continued*

Hard-Wired AC Power Supply

The FX-1 Gas Detector can be hard wired to a fixed mounted AC power supply. **A battery backup system is recommended where AC power is likely to be interrupted.**

The FX-1 will not work without AC power.

Use a maximum 14 gauge stranded wire only.

The fixed mounted AC power supply must be grounded by an earth ground.

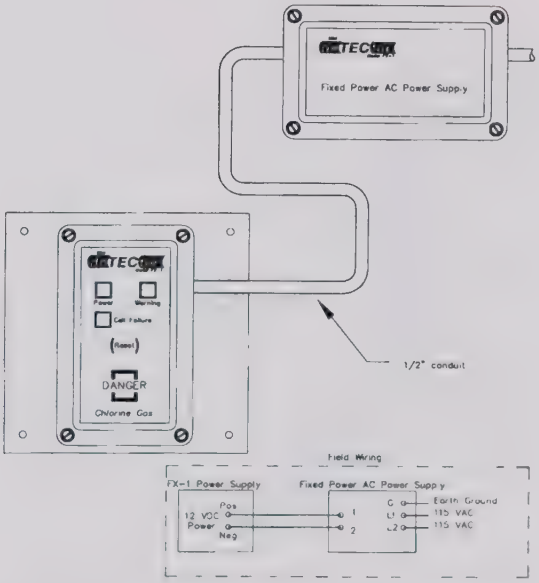
Location and Mounting of fixed mounted AC power supply.

The fixed mounted AC power supply should be placed in such a way that it is easily accessible for service. Two conduit holes are provided, one at each end of the NEMA 4X enclosure. A terminal strip at each end of the fixed mounted AC power supply is provided, one for incoming 115VAC power and the other for outgoing 12VDC power to the FX-1. The AC power supply should be mounted no more than 100 feet away.

Electrical

Wiring: *continued*

Hard-Wired AC Power Supply



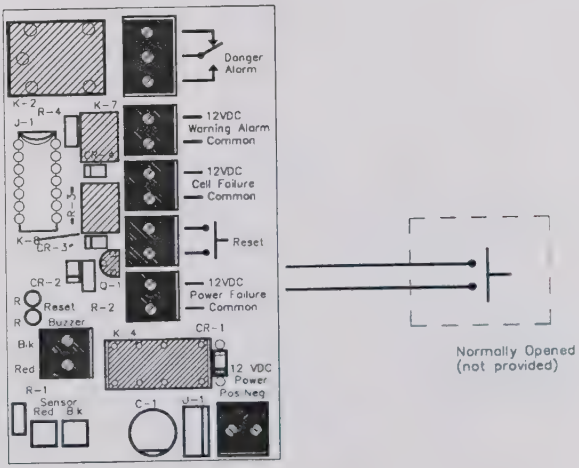
Warning

A battery backup system is recommended where AC power is likely to be interrupted. Always test the unit after a power outage or power surge, however brief.

Wiring: *continued*

Remote Reset Switch

Normally Opened Switch



A remote reset switch terminal is provided. This permits the detector to be reset from a remote location. A **normally opened** switch must be used, however, it is not provided and is optional.

Internal Wiring

Audible Alarm Output (Buzzer):

NEVER connect an audible alarm to the piezo output terminal. This connection is only for the factory piezo buzzer provided.

AC Power Pack Transformer:

ONLY use the AC power pack transformer that is provided with the detector. This transformer provides the proper voltage / current to the detector. **Using an AC power pack transformer other than the one provided will cause the detector to malfunction.**

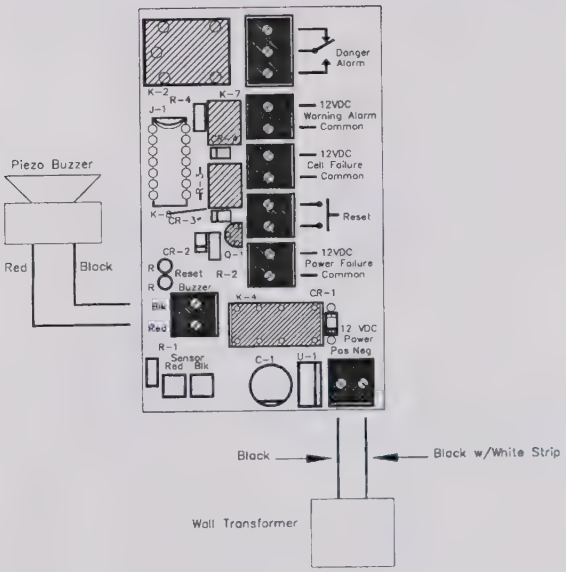
Important

A battery backup system is recommended where AC power is likely to be interrupted. Always test the unit following a power outage or power surge, however brief.

Warning

Never plug the AC power Transformer into an extension cord. Plug it directly into a wall AC outlet

Internal Wiring



Do not connect any external device to the 4-20mA sensor signal loop. Connecting an external device would prevent the monitor from alarming properly.

If an output is required consult factory.

Internal Wiring

Important

Never exceed the rating of the relay or 12VDC power outputs. Use only factory recommended auxiliary relays. Warranty will be voided if factory recommended auxiliary relays are not used.

Warning

The use of non-factory recommended auxiliary relays may result in the detector malfunctioning.

Important

Danger Alarm

The **Danger Alarm** relay associated with the "Danger Alarm" LED is **normally a latching relay**. When the alarm is **energized**, the relay will **hold** in until it is manually reset using the "Reset" button on the side of the monitor or by waving a flashlight at the "Reset" label on the control panel.

Control Panel

Layout

Control Panel

Descriptions:

Warning

All functions of this FX-1 Gas Detector must be checked and verified on a regular basis.

Power "ON" LED
Green LED

Indicates AC power is turned on. **Never operate the detector if the green LED power indicator is not illuminated.**

Warning Alarm LED
Yellow LED

Please refer to page 11 for warning alarm trip point. **No relay output.** Output voltage, 12VDC @ 90 ohms maximum. When the concentration of toxic gas falls below the trip point level, the output will automatically reset.

Cell Failure
Green Blinking LED

The cell failure alarms if the sensor voltage drops below the factory calibrated voltage range (1.9VDC). **Never operate the detector if the green blinking LED is illuminated.**

Descriptions: *continued*

Cell Failure *continued*

The cell failure indicating LED is not foolproof. Like all other electronic devices, it contains many parts. Any of these parts could fail at any time. Therefore, you must test your detector on a regular basis.

Be sure to have the detector repaired or replaced when it fails to test properly.

Danger Alarm
2 Red Blinking LEDs

Refer to page 11 for danger trip point level. Alarm relay is latching and must be reset either by pressing the reset button or by using the Flashlight Reset Test feature. The danger alarm will not reset automatically.

The Danger Alarm Relay associated with the "Danger Alarm" LED is normally a latching relay. When the alarm is energized, the relay will hold in until it is manually reset by using the "RESET" functions

Warning

Never continuously operate the FX-1 Gas Detector with the Danger alarm Blinking.

Descriptions: *continued*

"Reset"
Flashlight Test, Silence, and Reset System

The Flashlight Test, Silence, and Reset System can be used to silence the alarm buzzer, reset the danger relay, and electronically test the detector. A flashlight beam can be directed to the "Reset" portion of the control panel from as far away as 15 feet.

You must stand directly in front of the detector. The flashlight must have a sufficient amount of brightness (a two D-cell flashlight with fully charged to half-charged batteries or an equivalent rechargeable flashlight) so that the beam of light can clearly be seen on the detector itself. If the flashlight's beam cannot be seen clearly, the room light must be lowered. Lower the light in the room until the beam of light can clearly be seen on the detector.

A red confirm LED will appear when the Flashlight Test, Silence, and Reset System is activated. **Never operate the detector if the confirm LED is illuminated** and you are not activating the system. The confirm LED should only be illuminated by a flashlight. **Do not install the detector in direct sunlight or light**. If the confirm LED is illuminated, but not illuminated by a flashlight, the detector must be moved to another wall to eliminate the light source

To avoid nuisance activation of the confirm light, a field adjustment can be made to correct the problem.
Please contact the factory for instructions.

Descriptions: *continued*

Reset Test Button
Mechanical Button

The Reset Test Button is used to manually silence the alarm buzzer, reset the danger alarm relay and electronically test the detector.

Warning

Never operate the detector if the "CONFIRM LED" is illuminated.

All functions of this detection system must be checked and verified on a regular basis.

Never create a toxic gas leak to test the functions of the detector. A certified method of testing is highly recommended.

System Startup

Preparation:

Remove the protective nose from the sensor cavity. This plug is clearly marked with a white sticker **"Remove protective plug before operating".** Store the protective nose in a safe place, as it will be needed for verification and calibration of the sensor.

Operations:

1. Plug the AC transformer into an uninterrupted AC power source.

2. Once power is turned on, the green "Power" LED should illuminate.

3. Allow the detector to warm up for a full 15 minutes.

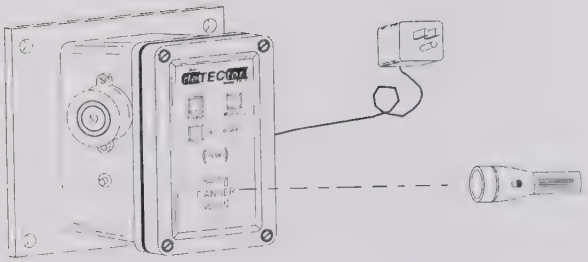
4. The "Cell Failure" LED indicator will blink when you first apply AC power. It will go out in approximately 5 minutes.

5. The "Danger" alarm may go off during startup. Simply press the manual reset button to reset the alarm.

6. A clicking sound may occur for a few minutes after powering the detector up. This is normal. If the clicking continues for more than 15 minutes, consult factory.

System Startup

Operations: *continued*



7. Test the detector by either pressing the "Reset Test button" with your finger or by waving the beam from a flashlight at the reset mark on the detector control panel. The red "confirm" LED will illuminate. The danger LED's will blink and the buzzer will chirp.

8. **Never operate the detector if the danger alarm LED fails to operate or the buzzer fails to chirp.**

9. System is now ready for operation.

Operations: *continued*

Warning

Never continuously operate the detector with the Danger Alarm LED blinking.

Important

Never operate the detector if the confirm LED is illuminated. The confirm LED should only be lit by a flashlight or the manual reset button. **Do not install the detector in direct sunlight**. If the confirm LED is illuminated, but not by a flashlight or manually, then the direct light source must be eliminated.

Warning

All functions of this detector must be checked and verified on a regular basis.

Warning

Never create a toxic gas leak to test and verify the functions of a gas detector. A certified method of testing is recommended.

Sensor Test System

Test, Silence and Reset System:

While the electronic "Test, Silence and Reset System" will only test all electronic functions, it is important that the sensor be tested periodically to ensure its gas sensitivity. A certified method is recommended.

Important

The electronic test should be conducted weekly while the sensor test should be done every six months.

Important

It is very important to maintain Weekly and Monthly Test Logs. Regular testing ensures the proper operation and life of the detector.

Warning

Never operate the detector if the "Cell Failure" is blinking.

ALL FUNCTIONS OF THIS DETECTOR MUST BE CHECKED AND VERIFIED ON A REGULAR BASIS.

Calibration

Calibration:

The FX-1 Mini DeTECtor has been factory calibrated prior to shipment. If you wish to check the calibration of the detector, a low level toxic gas standard is required. The best method for this is to use a certified calibration mixture.

It is recommended that the detector be verified by the use of a low level toxic gas standard every six months.

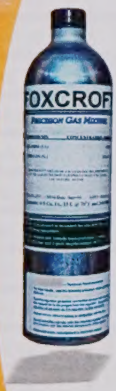
All functions of this gas detection system must be checked and verified on a regular basis.

FX-1 Mini DeTECtor Parts Listing

Description	Part Number
Gas Sensor	*Specify Gas Type*
Gas Sensor Transmitter	*Specify Gas Type*
Gas Sensor with Transmitter	*Specify Gas Type*
Amplifier Card	FX-112433601
Power Supply Card	FX-111433601
Ribbon Cable	FX-9431323-06
Power Supply (115 VAC) Wall	FX-9289770
Power Supply (220 VAC) Wall	FX-9289771
Pulsing Piezo Buzzer	FX-273006

Serial numbers are required to order parts.

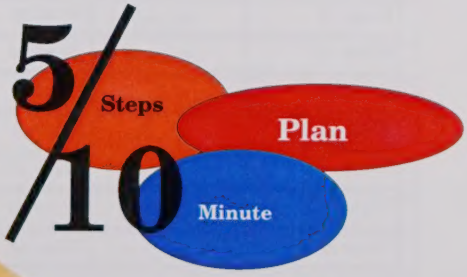
Safety 1st



- Retails $137.00
- Small Volume
- No Waste

CEA Instruments, Inc.
16 CHESTNUT STREET
EMERSON, NEW JERSEY 07630
TELEPHONE (201) 967-5660, FAX (201) 967-8450

Essential part of our



Weekly Electronic Test Log

Date	Initials	Date	Initials
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Weekly Electronic Test Log

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Monthly Sensor Test Log

Date	Initials	Date	Initials
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Month of		Month of	
Month of		Month of	
Month of		Month of	
Month of		Month of	
Month of		Month of	
Month of		Month of	

Important

It is very important to maintain Weekly and Monthly Test Logs. Regular testing ensures the proper operation and life of the detector.

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